

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122  
 Revised 9-1-65

|                                                                                                                           |  |                                               |  |                                            |  |                                                          |  |
|---------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|--------------------------------------------|--|----------------------------------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  |                                               |  |                                            |  | Test Date<br>10-2-80                                     |  |
| Company<br>El Paso Exploration Co.                                                                                        |  |                                               |  | Connection<br>Northwest Pipeline           |  |                                                          |  |
| Pool<br>Blanco                                                                                                            |  |                                               |  | Formation<br>Mesa Verde                    |  | Unit                                                     |  |
| Completion Date<br>9-25-80                                                                                                |  | Total Depth<br>6215                           |  | Plug Back TD<br>6183                       |  | Elevation<br>6969 GR                                     |  |
| Farm or Lease Name<br>Jicarilla 152W                                                                                      |  | Well No.<br>#5 (MV)                           |  | Perforations:<br>From 5258 To 5142'        |  | Csq. Size<br>7.00*    Wt. 20.0    d 6.456    Set At 3855 |  |
| Unit<br>G    7    26    5                                                                                                 |  | Perforations:<br>From                      To |  | Tbg. Size<br>2.375    4.7    1.995    6135 |  | Set At 6135                                              |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>G.G. Dual                                                      |  |                                               |  | Packer Set At<br>3700'                     |  | County<br>Rio Arriba                                     |  |
| Producing Thru<br>Tbg.                                                                                                    |  | Reservoir Temp. °F<br>@                       |  | Mean Annual Temp. °F                       |  | Baro. Press. - P <sub>g</sub><br>12                      |  |
| State<br>New Mexico                                                                                                       |  | Prover<br>4"                                  |  | Meter Run<br>4"                            |  | Taps<br>Flg.                                             |  |
| L                                                                                                                         |  | H                                             |  | G <sub>g</sub>                             |  | % CO <sub>2</sub>                                        |  |
|                                                                                                                           |  |                                               |  | .0670                                      |  | % N <sub>2</sub>                                         |  |
|                                                                                                                           |  |                                               |  |                                            |  | % H <sub>2</sub> S                                       |  |

  

| FLOW DATA |                  |   |              |                 |                      | TUBING DATA |                 | CASING DATA |                 | Duration of Flow |                  |
|-----------|------------------|---|--------------|-----------------|----------------------|-------------|-----------------|-------------|-----------------|------------------|------------------|
| NO.       | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. h <sub>w</sub> | Temp. °F    | Press. p.s.i.g. | Temp. °F    | Press. p.s.i.g. | Temp. °F         | Duration of Flow |
| 1.        | 4" X 2.50"       |   |              | 16              | 3.9                  | 55          | 46              |             |                 |                  | 3 Hr.            |
| 2.        |                  |   |              |                 |                      |             |                 |             |                 |                  |                  |
| 3.        |                  |   |              |                 |                      |             |                 |             |                 |                  |                  |
| 4.        |                  |   |              |                 |                      |             |                 |             |                 |                  |                  |
| 5.        |                  |   |              |                 |                      |             |                 |             |                 |                  |                  |

  

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                       |                               |                                         |                      |
|---------------------------|-----------------------|------------------|-------------------------|-----------------------|-------------------------------|-----------------------------------------|----------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor Ft. | Gravity Factor F <sub>g</sub> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1.                        | 32.64                 | 20.64            | 28                      | 1.005                 | 1.222                         | 1.000                                   | 827                  |
| 2.                        |                       |                  |                         |                       |                               |                                         |                      |
| 3.                        |                       |                  |                         |                       |                               |                                         |                      |
| 4.                        |                       |                  |                         |                       |                               |                                         |                      |
| 5.                        |                       |                  |                         |                       |                               |                                         |                      |

  

|     |                |          |                |   |                                                      |
|-----|----------------|----------|----------------|---|------------------------------------------------------|
| NO. | P <sub>f</sub> | Temp. °R | T <sub>f</sub> | Z | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.          |
| 1.  |                |          |                |   | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.     |
| 2.  |                |          |                |   | Specific Gravity Separator Gas _____ X X X X X X X X |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid _____ X X X X X       |
| 4.  |                |          |                |   | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.      |
| 5.  |                |          |                |   | Critical Temperature _____ R _____ R                 |

  

|                                 |                                    |                                            |                                                             |
|---------------------------------|------------------------------------|--------------------------------------------|-------------------------------------------------------------|
| P <sub>c</sub> 993              | P <sub>c</sub> <sup>2</sup> 986049 | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0197$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0147$ |
| NO. P <sub>f</sub> <sup>2</sup> | P <sub>w</sub>                     | P <sub>w</sub> <sup>2</sup>                | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>   |
| 1 3364                          | 138                                | 19044                                      | 967005                                                      |
| 2                               |                                    |                                            |                                                             |
| 3                               |                                    |                                            |                                                             |
| 4                               |                                    |                                            |                                                             |
| 5                               |                                    |                                            |                                                             |

  

ACF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 866$

  

|                    |     |                |                  |      |
|--------------------|-----|----------------|------------------|------|
| Absolute Open Flow | 866 | Mcf/d @ 15.025 | Angle of Slope θ | 0.75 |
|--------------------|-----|----------------|------------------|------|

  

Remarks: \* 4½" Liner 3711 to 6215'  
 Liquids - 3.5 Bbl. Oil, 9.4 Bbls Water: Gas Vented - 124 MCF.

  

|                         |               |                |             |
|-------------------------|---------------|----------------|-------------|
| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|                         | Lyle Nation   | Bill Clark     |             |